

G.P. LOGANATHAN

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Technical Skills

Languages: JavaScript (ES6+), Python, C++, Java, PHP, C#, SQL, HTML/CSS

Frameworks: React.js, Node.js, Express.js, Angular, Vue.js, Django, Spring Boot, Next.js

System Design & DevOps: Docker, Jenkins, CI/CD, AWS (EC2/S3), Prometheus, Redis, Nginx

Tools & Methodologies: Git, RESTful APIs, GraphQL, Socket.io, Three.js, Agile (Scrum)

Professional Experience

Software Engineer Intern

Dec 2024 – Present

SupremePragna Technologies Private Limited

Remote

- Reduced synchronization latency from 250ms to μ 10ms by engineering a real-time multiplayer engine via **Socket.io** and custom binary protocols.
- **Streamlined** database throughput by 40% through the implementation of **Redis caching** and **refined MongoDB** indexing strategies.
- Achieved 99.9% data consistency by architecting match-specific state persistence logic and ACID-compliant transactional flows in **Node.js**.
- Containerized microservices using **Docker**, streamlining deployment cycles and ensuring environment parity across staging and production.

Full Stack Developer Intern

June 2024 – Aug 2024

Bharat Intern

Remote

- Scaled content delivery by 50% through the development of a **RESTful API** architecture with automated request validation and rate limiting.
- Reduced client-side processing overhead by 35% by implementing server-side aggregation for complex financial tracking metrics.

Web Developer Intern

April 2024 – June 2024

Prodigy InfoTech

Remote

- **Graphics Engineering:** Built a procedural 3D engine using **Three.js**, **enhancing** the WebGL render loop to maintain 60 FPS during high-density particle emission.
- **Interactive Systems:** Engineered an **HTML5 Canvas** suite with asynchronous state management, reducing memory leaks in drawing-intensive sessions by 20%.
- **UI Optimization:** Increased user retention by 50% through **A/B testing** and mobile-first responsive refactoring of core landing pages.

Key Projects

Distributed Car Management System | PHP, MySQL, JQuery, Bootstrap

Dec 2023 – Feb 2024

- Decreased query execution time from 1.2s to 300ms by refactoring legacy **SQL** and implementing composite indexing on frequently accessed tables.
- Automated inventory tracking workflows, resulting in a 75% reduction in manual data entry errors and improved operational scalability.

Education

Government Thirumagal Mills College

Sep 2022 – May 2024

Master of Computer Applications (MCA)

Tamil Nadu, India

Government Thirumagal Mills College

June 2019 – May 2022

Bachelor of Computer Science (B.Sc)

Tamil Nadu, India

Technical Achievements

LeetCode Competitive Programming | Top 2% Worldwide

- Solved 700+ problems; demonstrated mastery in algorithmic complexity (O notation), Graph Theory, and Dynamic Programming.

Academic Excellence | Secondary School Leaving Certificate (SSLC)

- Ranked **2nd out of 500+** candidates in the State Board Examinations with a **90% aggregate** score, demonstrating consistent high-level performance.